



Proposed Reapportionment and Redistricting Plans in Hawaii

July 31, 2001

- Email: reapportionment@exec.state.hi.us
- Website: www.hawaiiredistricting.org
- Neighbor Island toll free #: 1-866-587-3902

Reapportionment Project

Environmental Systems Research Institute - Consultants



R2001: Topics

- **Population Change and Impact on Legislative Districts**
- **State Senate Plan**
 - Population Base
 - Canoe Districts
 - Basic Island Unit Details
 - Staggered Terms
- **State House Plan**
 - Population Base
 - Canoe Districts
 - Basic Island Unit Details



R2001: Change and Impact

- **Population Change (Reapportionment)**
- **Population Shifts (Redistricting)**
- **Redistricting Examples**



R2001: Population Change

- **A complete census of the US population occurs every decade**
- **Reapportionment is based on one person one vote**
- **District lines are moved to account for demographic and population shifts and provide equal representation**
- **Where district lines are moved will impact future elections**



R2001: Population Change

State Population Base

	1990
CC Honolulu	722,428
Hawaii County	120,056
Maui County	100,457
Kauai County	50,963



R2001: Population Change

State Population Base

	1990	2000
CC Honolulu	722,428	830,176
Hawaii County	120,056	147,877
Maui County	100,457	128,029
Kauai County	50,963	58,386



R2001: Population Change

State Population Base

	1990	2000	%growth
CC Honolulu	722,428	830,176	15%
Hawaii County	120,056	147,877	23%
Maui County	100,457	128,029	27%
Kauai County	50,963	58,386	15%



R2001: Population Change

State Population Base

	1990	2000	difference
CC Honolulu	722,428	830,176	107,748
Hawaii County	120,056	147,877	27,821
Maui County	100,457	128,029	27,572
Kauai County	50,963	58,386	7,423



R2001: Population Change

Hawaii Legislative District Targets

	#Dist	1991 Target
State Base	-	993,904
State Senate	25	39,756
State House	51	19,488



R2001: Population Change

Hawaii Legislative District Targets

	#Dist	1991 Target	2001 Target
State Base	-	993,904	1,164,468
State Senate	25	39,756	46,579
State House	51	19,488	22,833

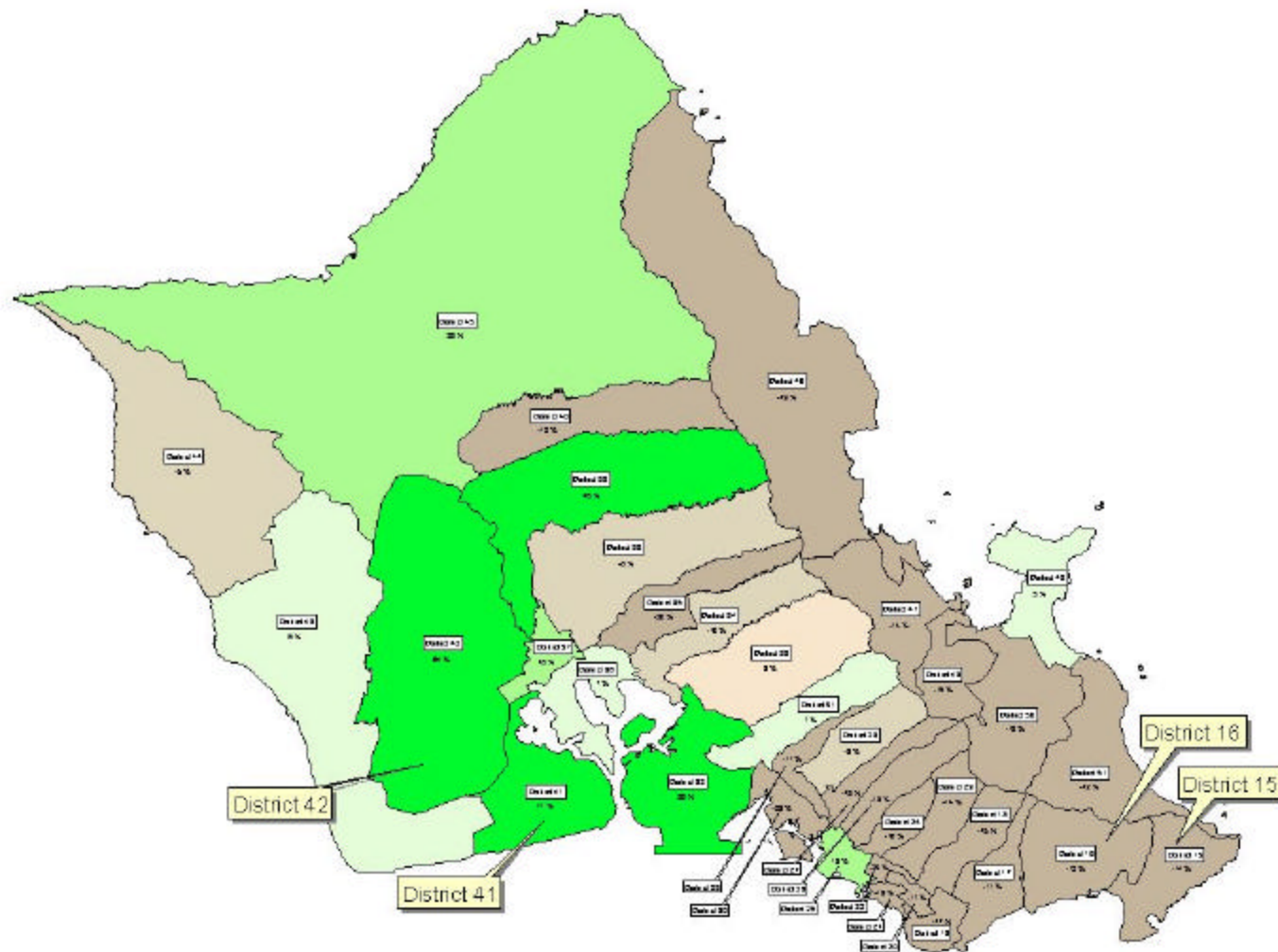


R2001: Population Change

Hawaii Legislative District Targets

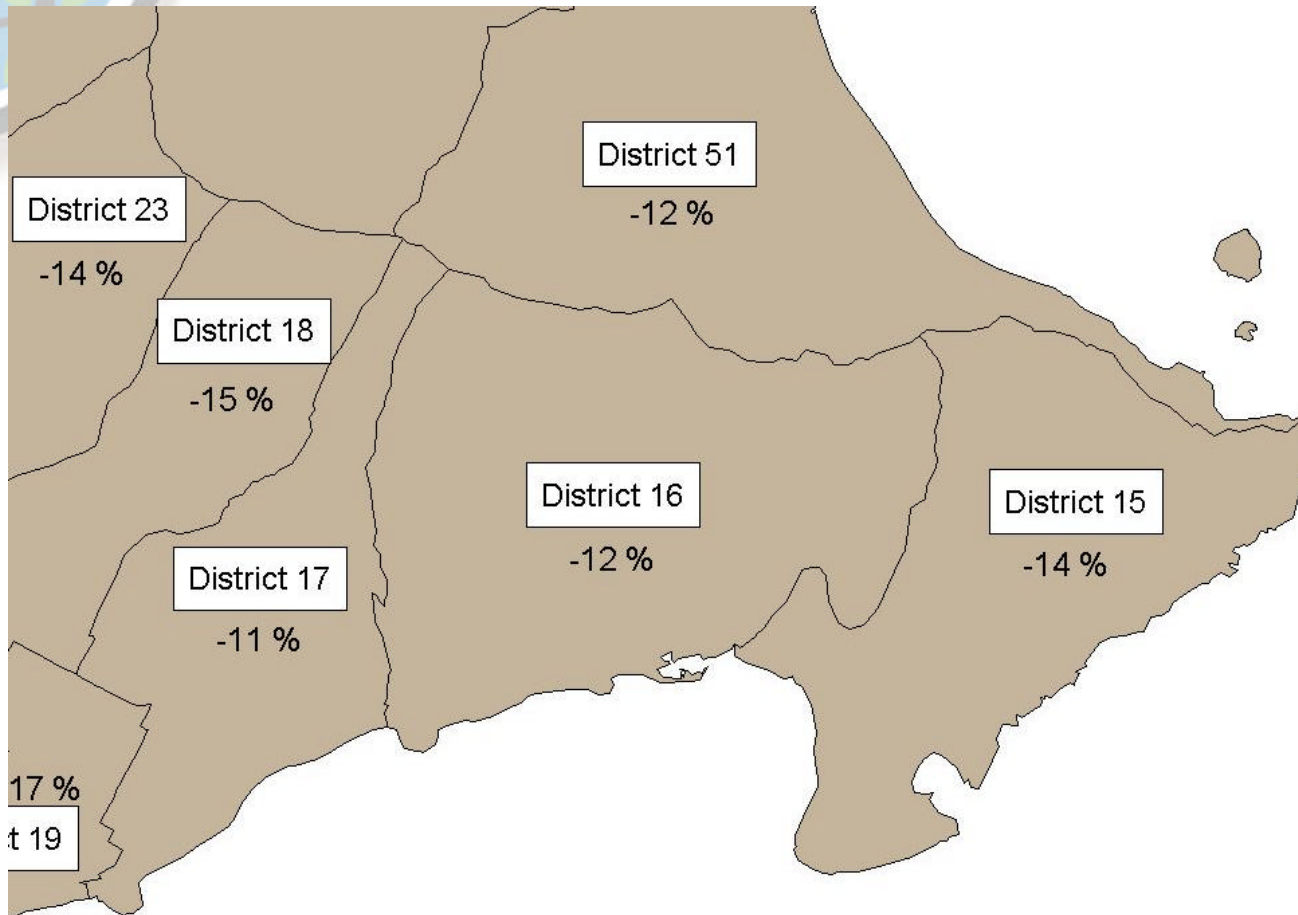
	#Dist	1991 Target	2001 Target	change
State Base	-	993,904	1,164,468	-
State Senate	25	39,756	46,579	6,823
State House	51	19,488	22,833	3,345

R2001: Population Shifts



Population has grown faster in central-west Oahu

R2001: Population Shifts



These districts must grow to gain needed population



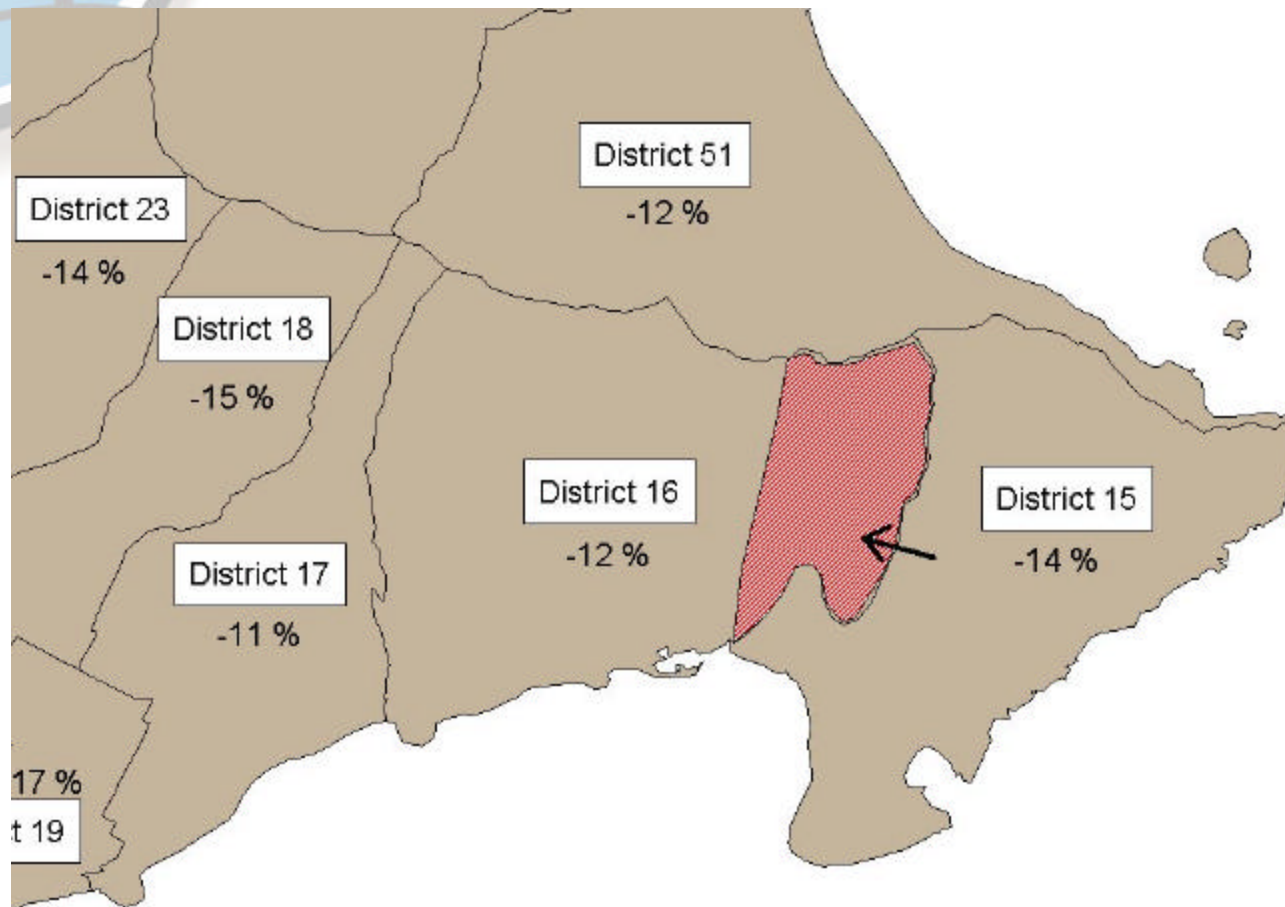
R2001: Population Shifts

Oahu Example

	Dist#	2001 Pop	Target	change
East Oahu	15	19,586	22,833	+3,247
East Oahu	16	20,008	22,833	+2,825

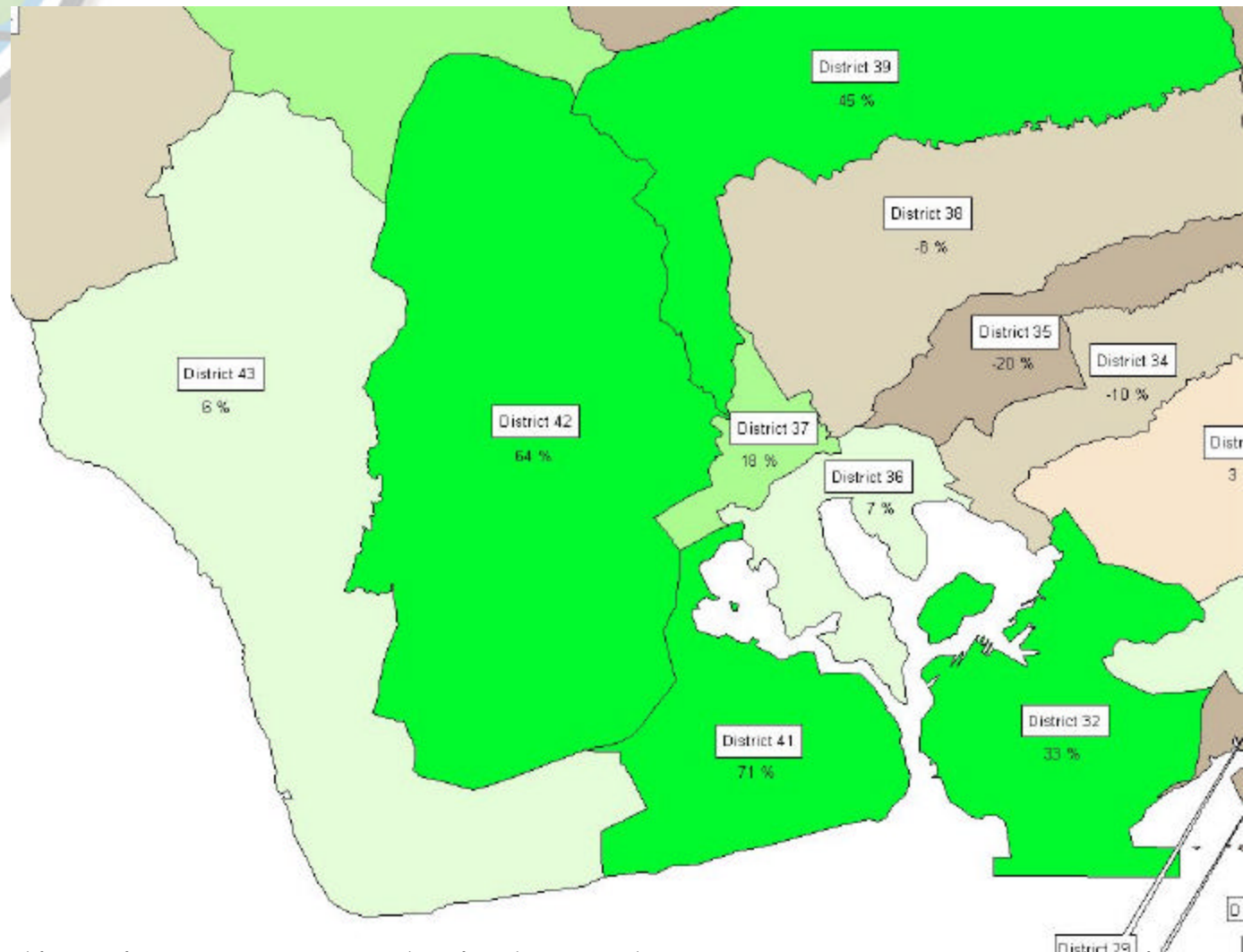
Districts must grow to gain needed population

R2001: Population Shifts



District 15 grows into District 16

R2001: Population Shifts



These districts must shrink to lose excess population



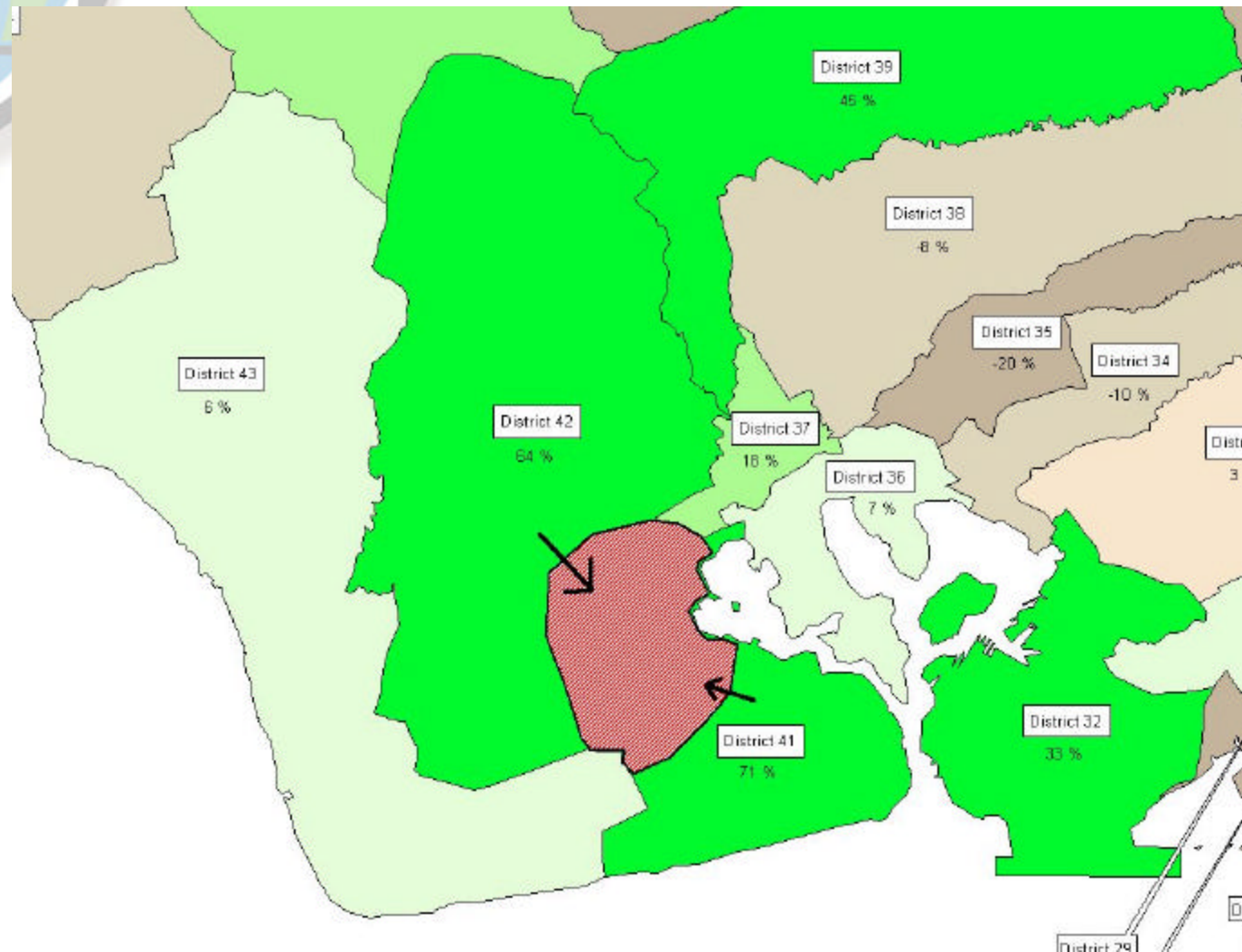
R2001: Population Shifts

Oahu Example

	Dist#	2001 Pop	Target	change
West Oahu	41	39,120	22,833	-16,287
West Oahu	42	37,385	22,833	-14,552

Districts must shrink to lose excess population

R2001: Population Shifts



Districts 41 and 42 shrink creating a new district



R2001: Effects on Redistricting

Districts must shrink or grow...

... subject to constraints...



R2001: Effects on Redistricting

Constraints on redistricting are...

- **Equal Representation**
 - **Rule of equal proportions**
 - **One person, one vote**



R2001: Effects on Redistricting

Constraints on redistricting are...

- **Geography**
 - **Census blocks**
 - **Ridges and Valleys**
 - **Neighborhoods and Communities**



R2001: Effects on Redistricting

Constraints on redistricting are...

- **Constitutional**
 - **Contiguity**
 - **Compactness**
 - **Submergence**
 - **Statewide deviation**



R2001: Statewide Deviation

- **Total statewide deviation is the difference between the largest positive deviation and the largest negative deviation.**
- **Total statewide deviation of less than 10% is presumed constitutional.**
- **Total statewide deviation of more than 10% is presumed unconstitutional.**



R2001: Topics

- **State Senate Plan**
 - **Population Base**
 - **Canoe Districts**
 - **Basic Island Unit Details**
 - **Staggered Terms**



R2001: State Senate Plan

Hawaii Legislative District Targets

	Districts	Target
State Pop Base	-	1,164,468
State Senate	25	46,579



R2001: State Senate Plan

State Population Base

25 Senate Districts

	State base	Districts
Target Population	46,579	25
CC Honolulu (18)	830,176	17.82
Hawaii County (3)	147,877	3.17
Maui County (2+c)	128,029	2.75
Kauai County (1+c)	58,386	1.25

Number in parentheses shows current number of districts, “c” means canoe.



R2001: State Senate Plan

State Population Base

25 Senate Districts Without Canoes

2000 PL Data	Districts	Districts	Dev
Target Population		25	33%
CC Honolulu (18)	17.82	18	-1%
Hawaii County (3)	3.17	3	6%
Maui County (2+c)	2.75	3	-8%
Kauai County (1+c)	1.25	1	25%

Best achievable statewide deviation is 33% (less than 10% is presumed constitutional)



R2001: State Senate Plan

State Population Base

25 Senate Districts with One Canoe

2000 PL Data	Districts	Districts	Dev
Target Population	25	25	26%
CC Honolulu (18)	17.82	18	-1%
Hawaii/Maui (5+c)	5.92	6	-1%
Kauai County (1+c)	1.25	1	25%

Best achievable statewide deviation is 26% (less than 10% is presumed constitutional)



R2001: State Senate Plan

State Population Base

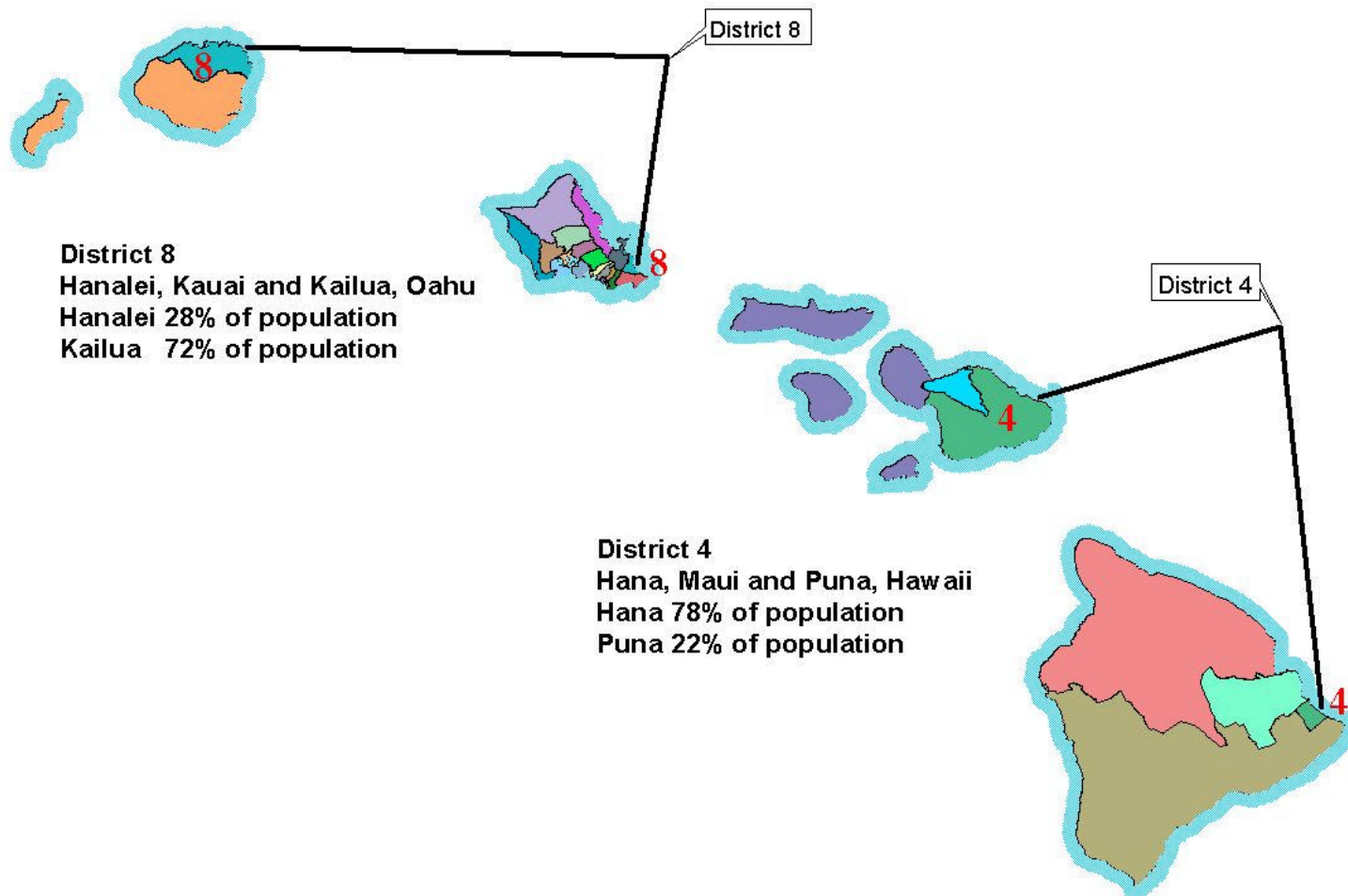
25 Senate Districts with Two Canoes

2000 PL Data	Districts	Districts	Dev
Target Population	25	25	2%
CCH/Kauai (19+c)	19.08	19	1%
Hawaii/Maui (5+c)	5.92	6	-1%

Best achievable statewide deviation is 2% (less than 10% is presumed constitutional)

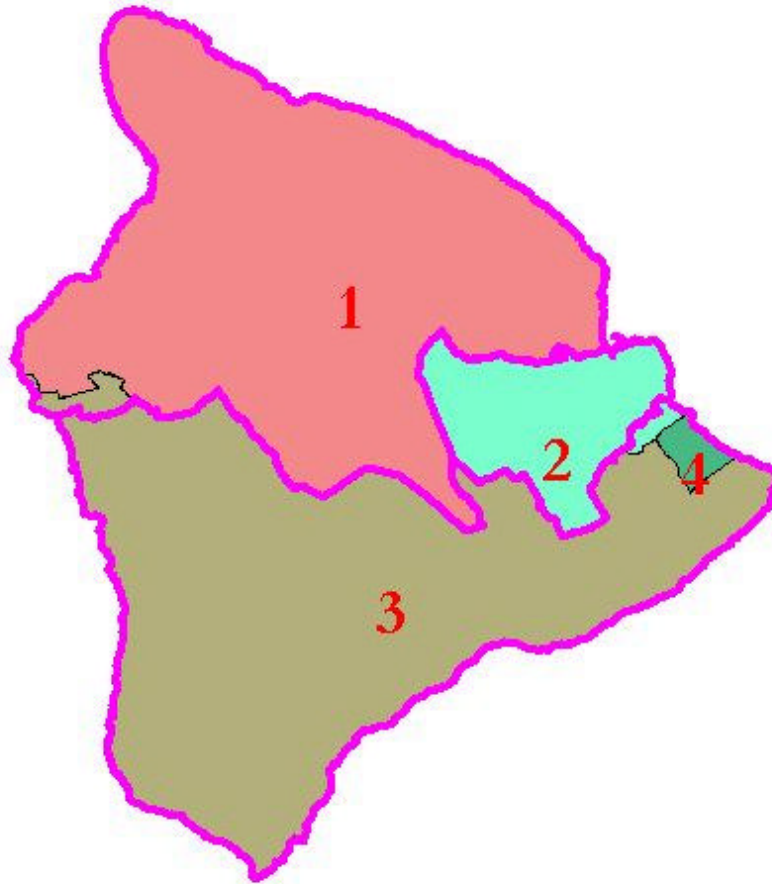
R2001: State Senate Plan

7.0% deviation statewide



R2001: State Senate Plan

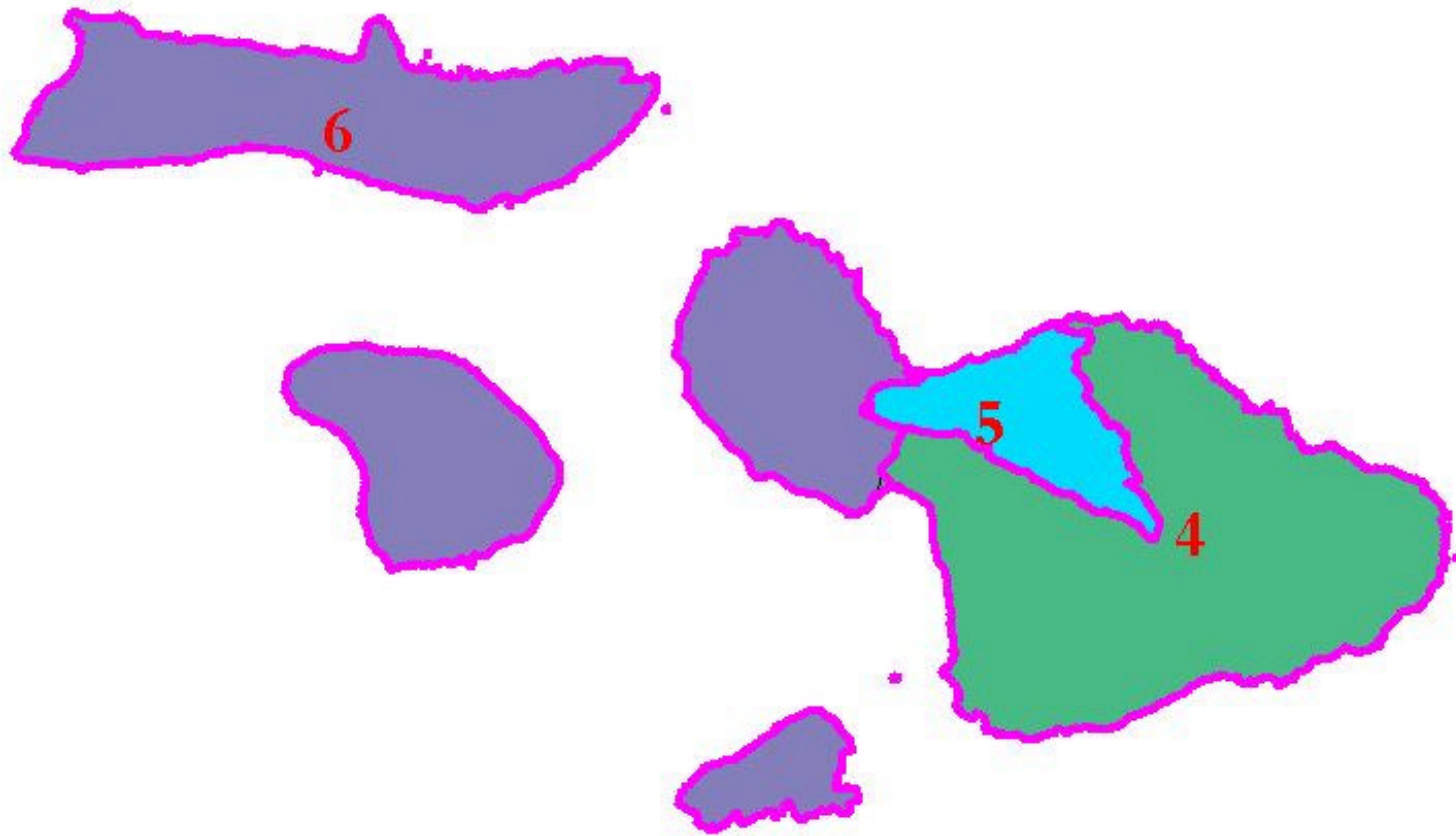
Hawaii – Big Island



On this, and all subsequent maps, the 1991 boundaries are shown as violet lines

R2001: State Senate Plan

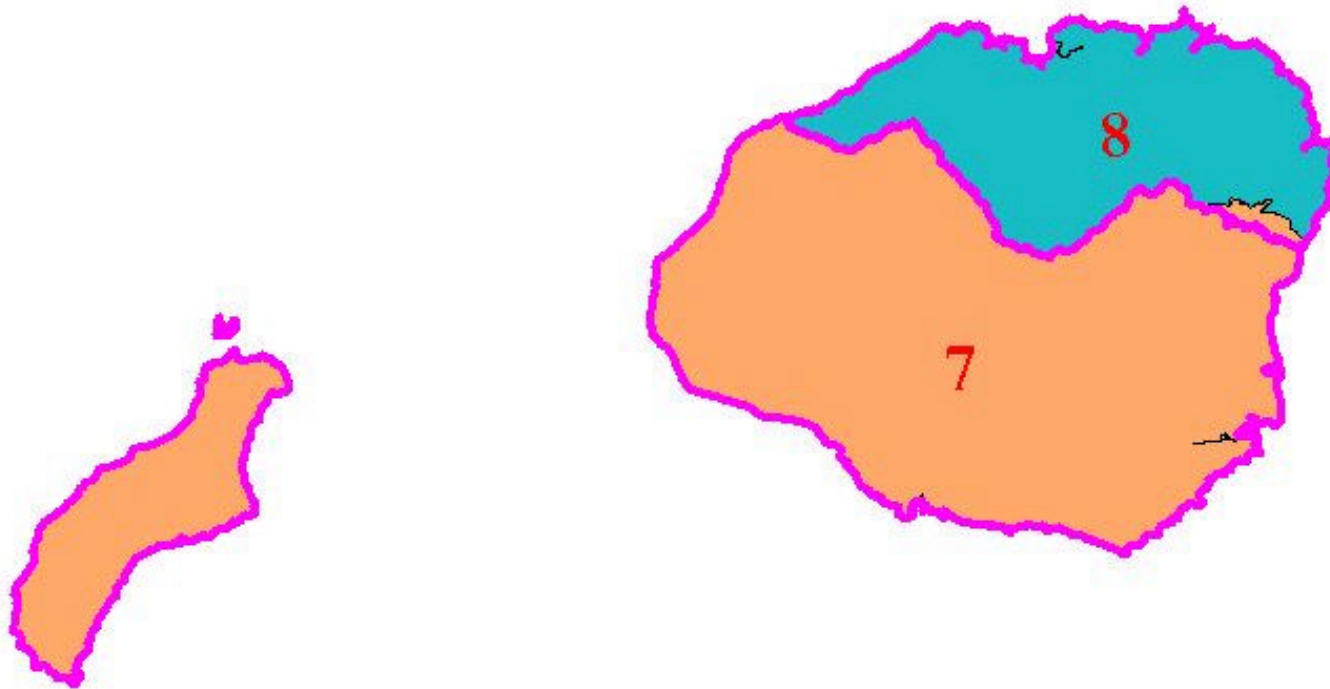
Maui





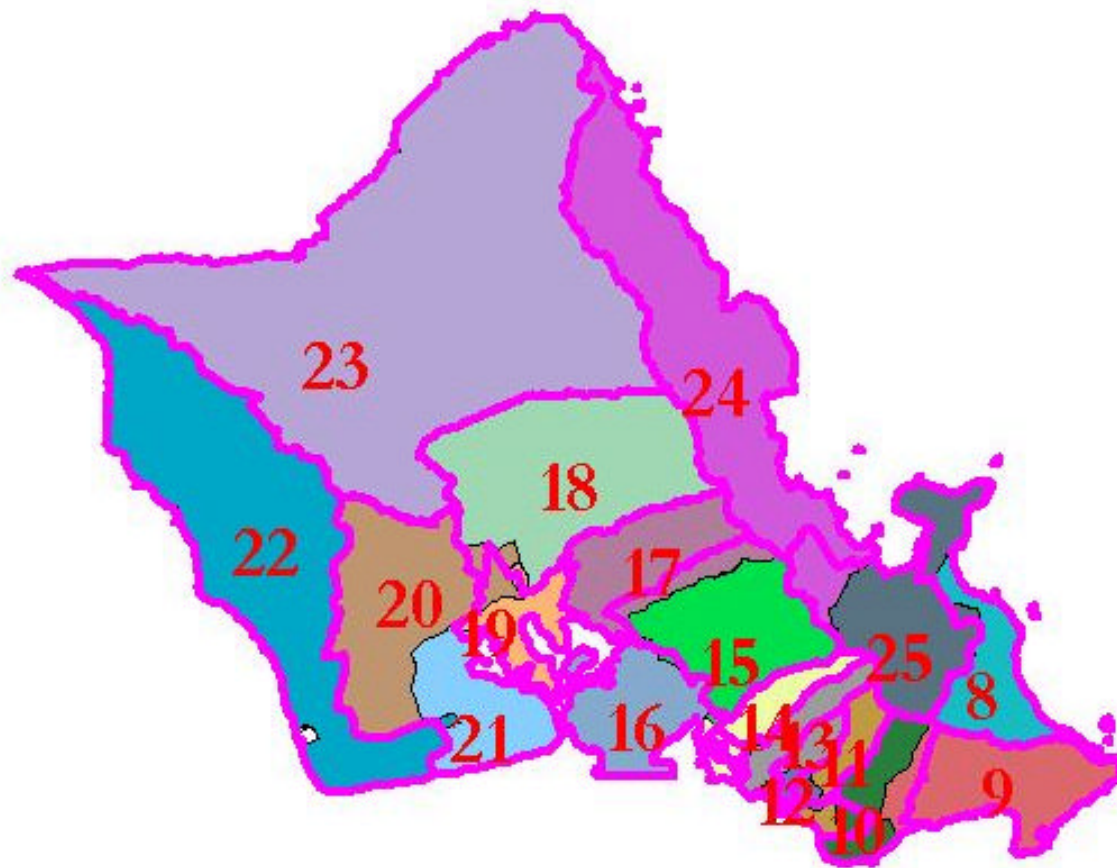
R2001: State Senate Plan

Kauai



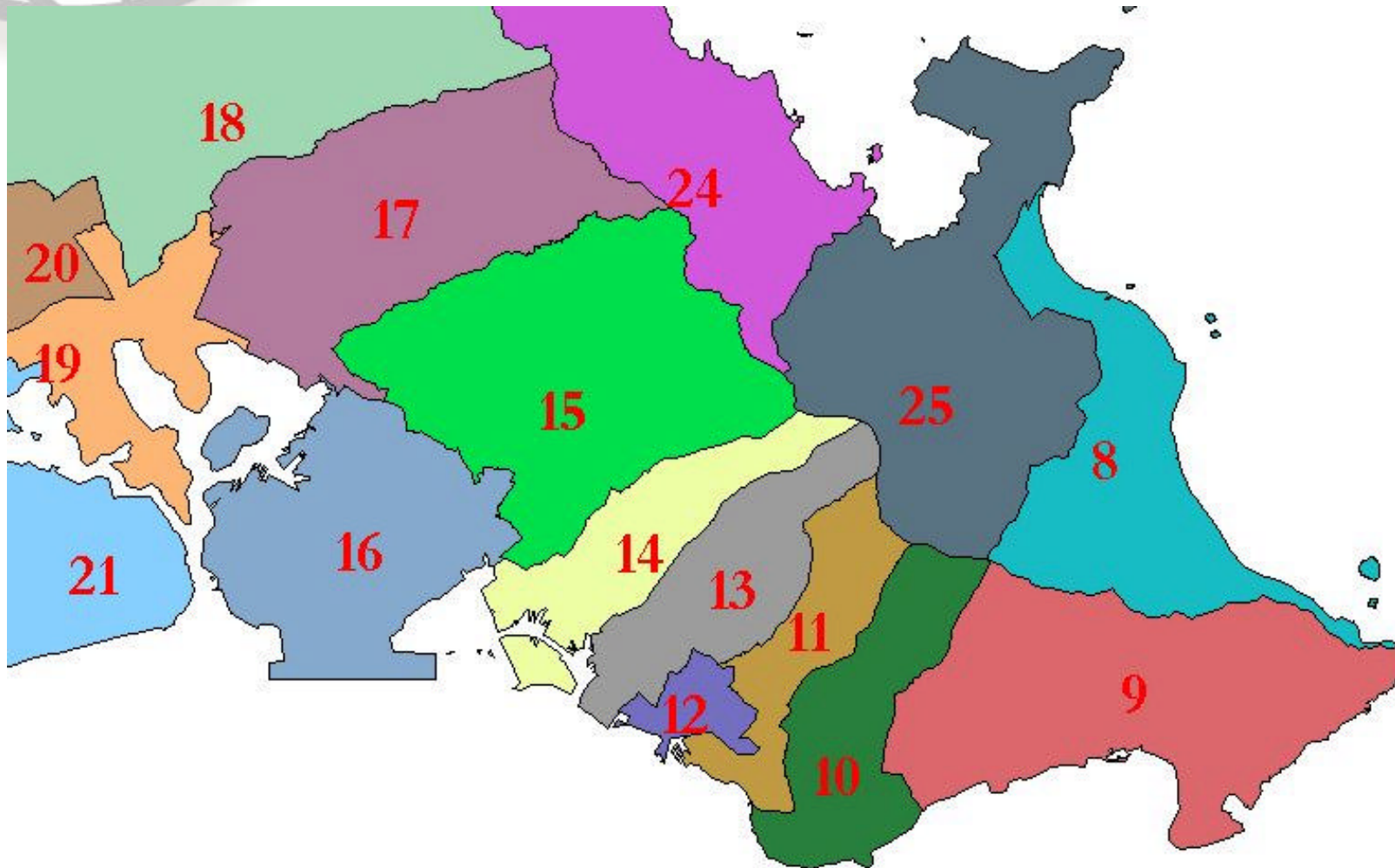
R2001: State Senate Plan

Oahu



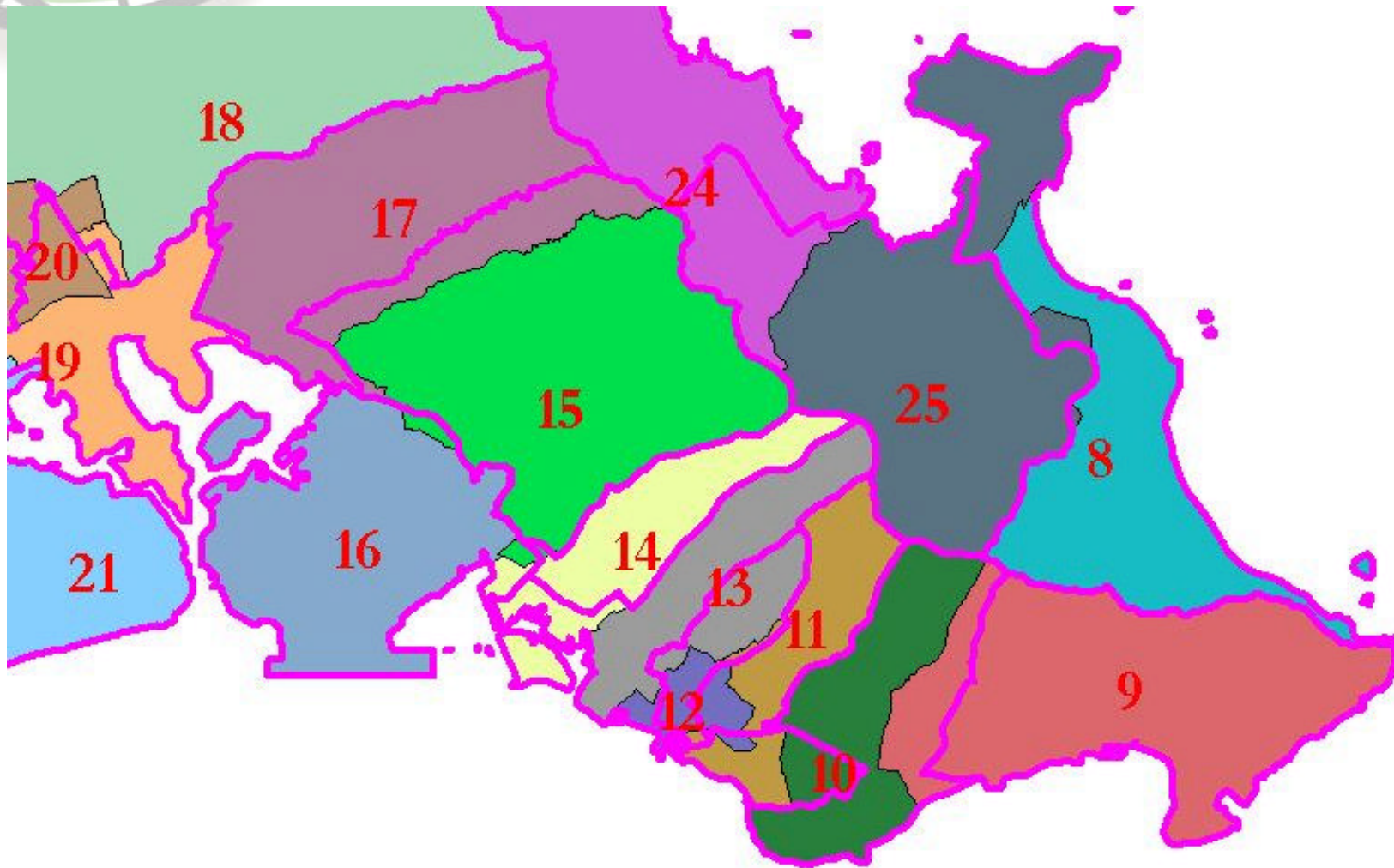
R2001: State Senate Plan

East Oahu



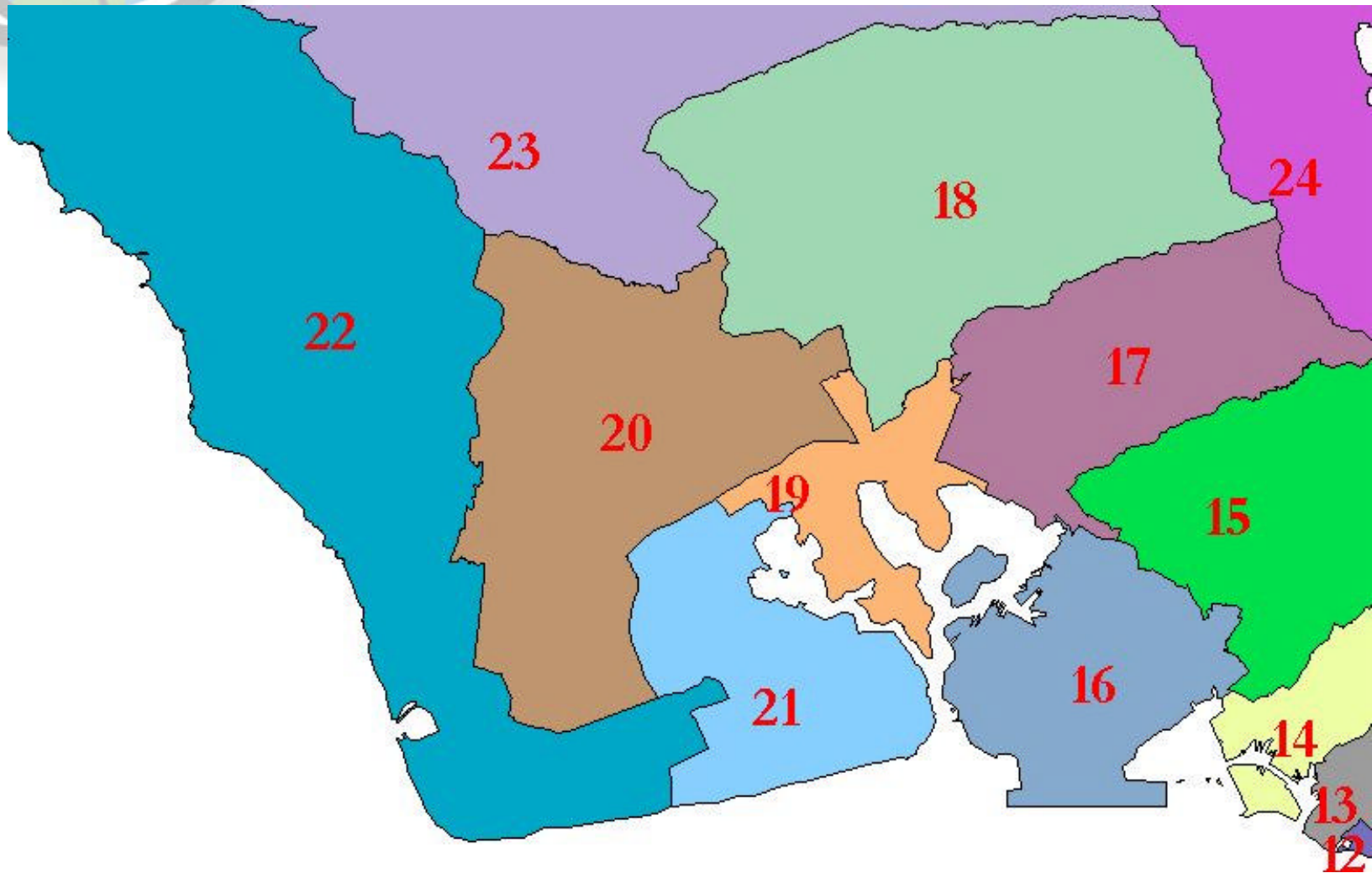
R2001: State Senate Plan

East Oahu



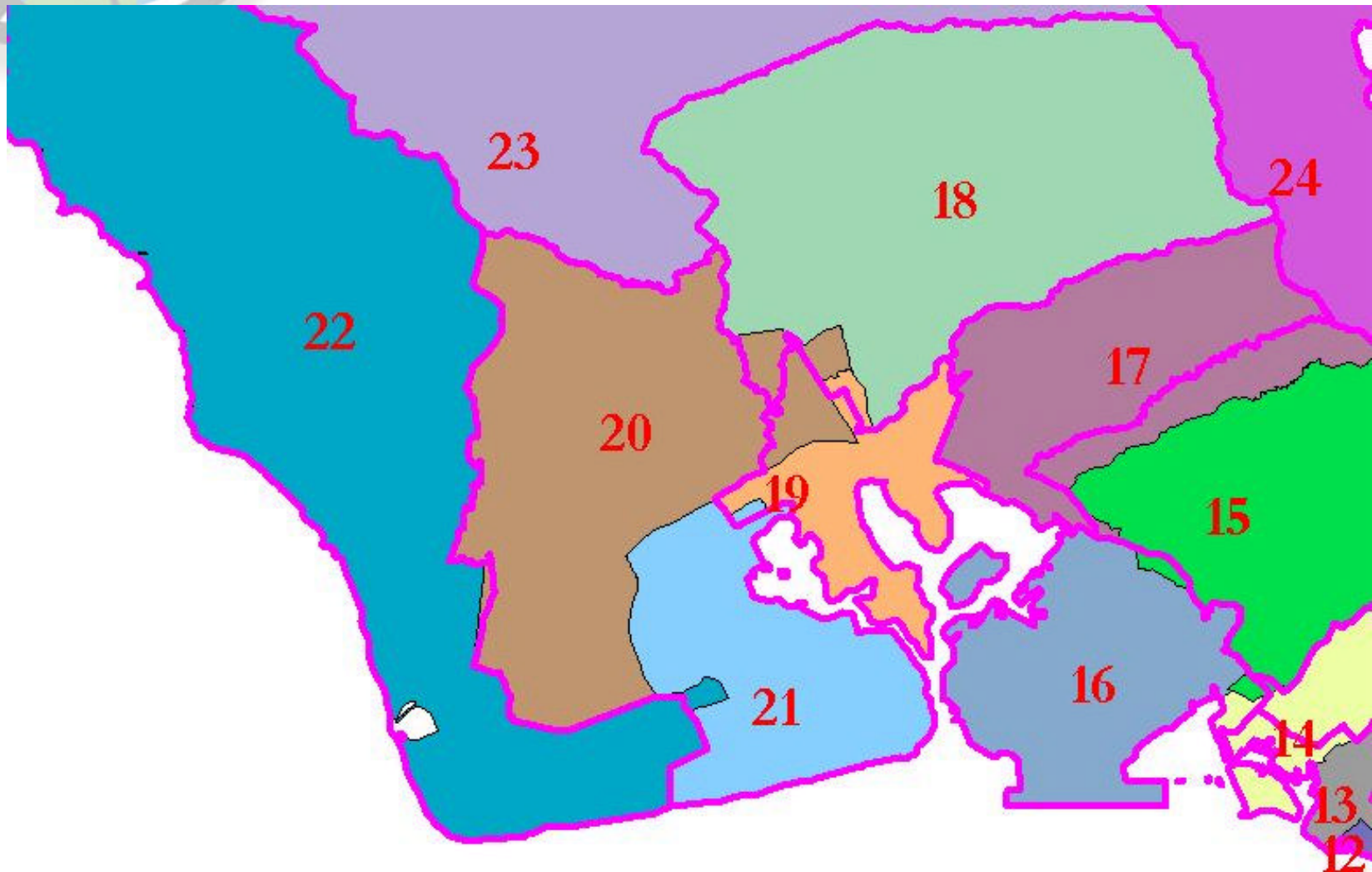
R2001: State Senate Plan

West Oahu



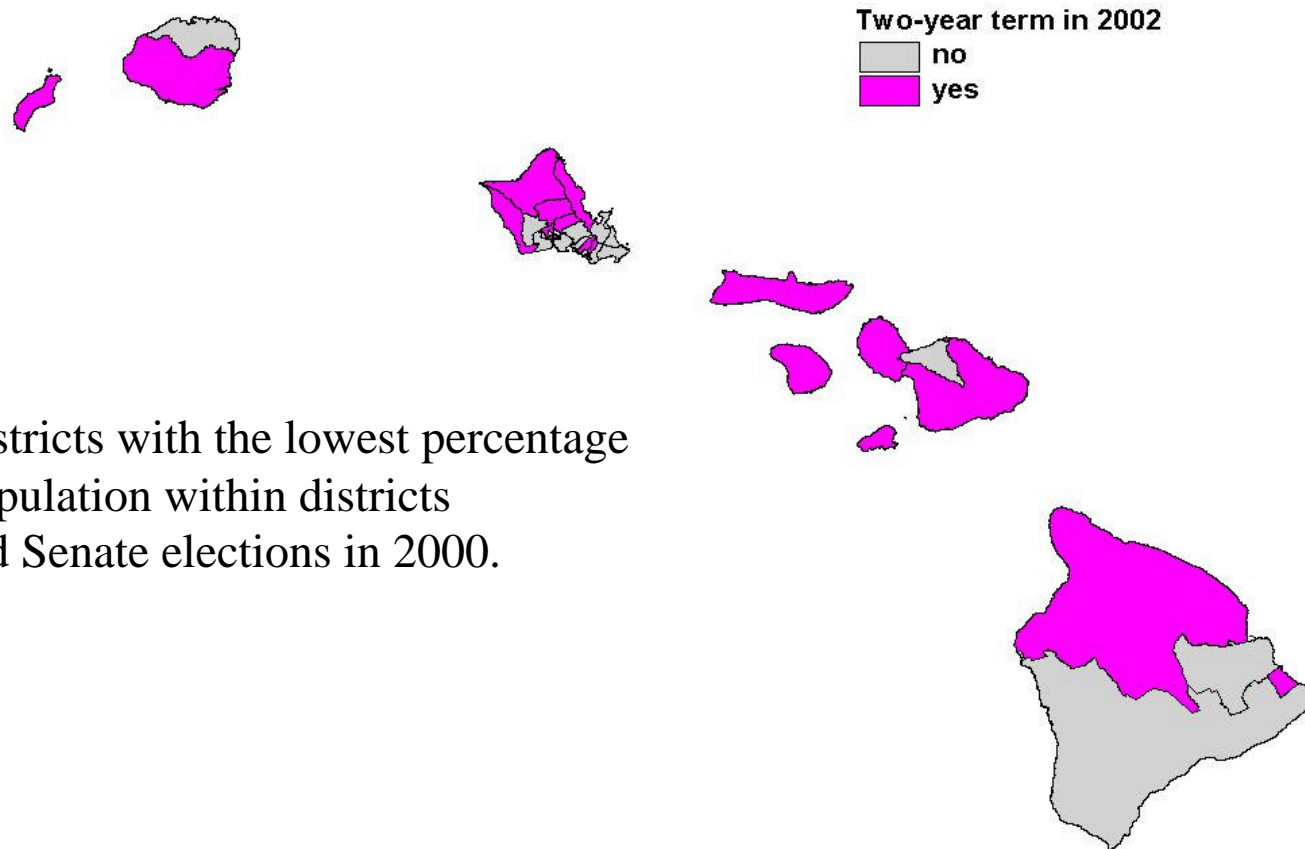
R2001: State Senate Plan

West Oahu



R2001: State Senate Plan

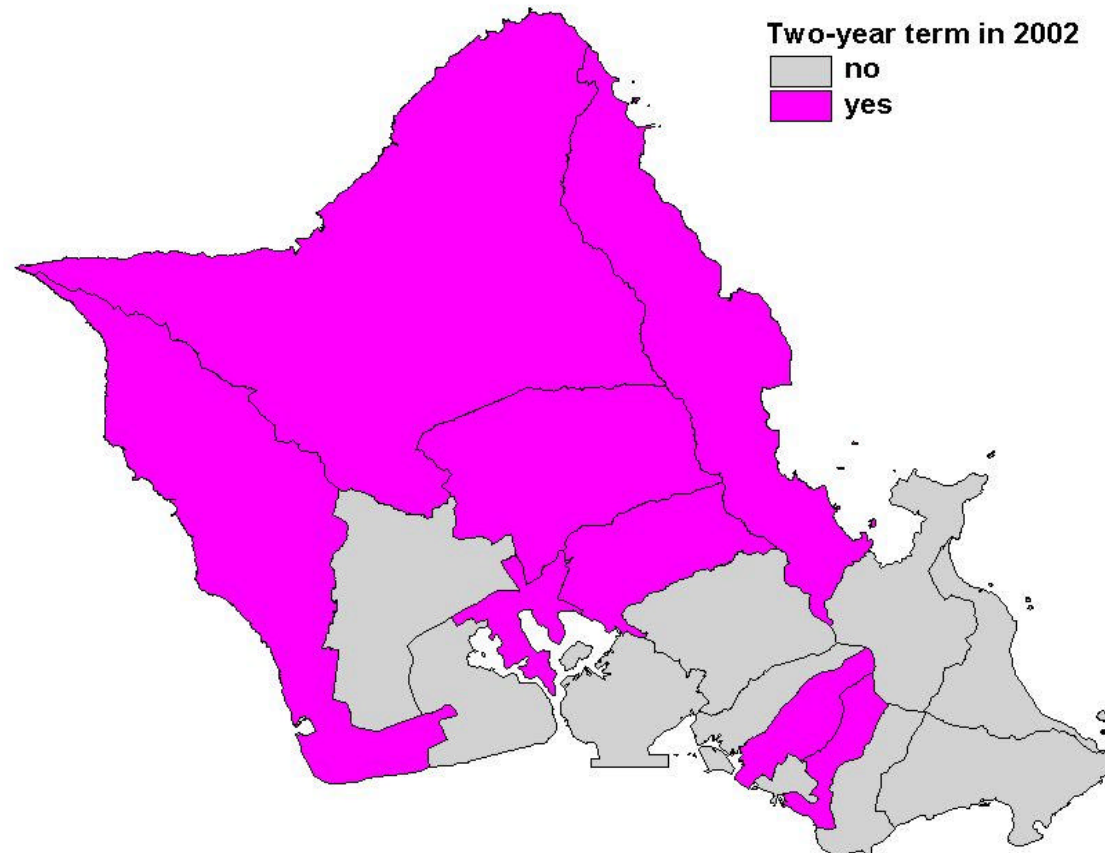
Two-year Senate Terms in 2002 Election



The 12 new districts with the lowest percentage of population within districts that held Senate elections in 2000.

R2001: State Senate Plan

Two-year Senate Terms in 2002 Election





R2001: Topics

- **State House Plan**
 - **Population Base**
 - **Canoe Districts**
 - **Basic Island Unit Details**



R2001: State House Plan

Hawaii Legislative District Targets

	Districts	Target
State Pop Base	-	1,164,468
State House	51	22,833



R2001: State House Plan

State Population Base

51 House Districts

2000 PL Data	State base	Districts
Target Population	22,833	51
CC Honolulu (37)	830,176	36.36
Hawaii County (6)	147,877	6.48
Maui County (5+c)	128,029	5.61
Kauai County (2+c)	58,386	2.56



R2001: State House Plan

State Population Base

51 House Districts Without Canoes

2000 PL Data	Districts	Districts	Dev
Target Population	51	51	23%
CC Honolulu (37)	36.36	36	1%
Hawaii County (6)	6.48	6	8%
Maui County (5+c)	5.61	6	-7%
Kauai County (2+c)	2.56	3	-15%

Best achievable statewide deviation is 23% (less than 10% is presumed constitutional)



R2001: State House Plan

State Population Base

51 House Districts with One Canoe

2000 PL Data	Districts	Districts	Dev
Target Population	51	51	16%
CC Honolulu (37)	36.36	36	1%
Hawaii/Maui (11+c)	12.09	12	1%
Kauai County (2+c)	2.56	3	-15%

Best achievable statewide deviation is 16% (less than 10% is presumed constitutional)



R2001: State House Plan

State Population Base

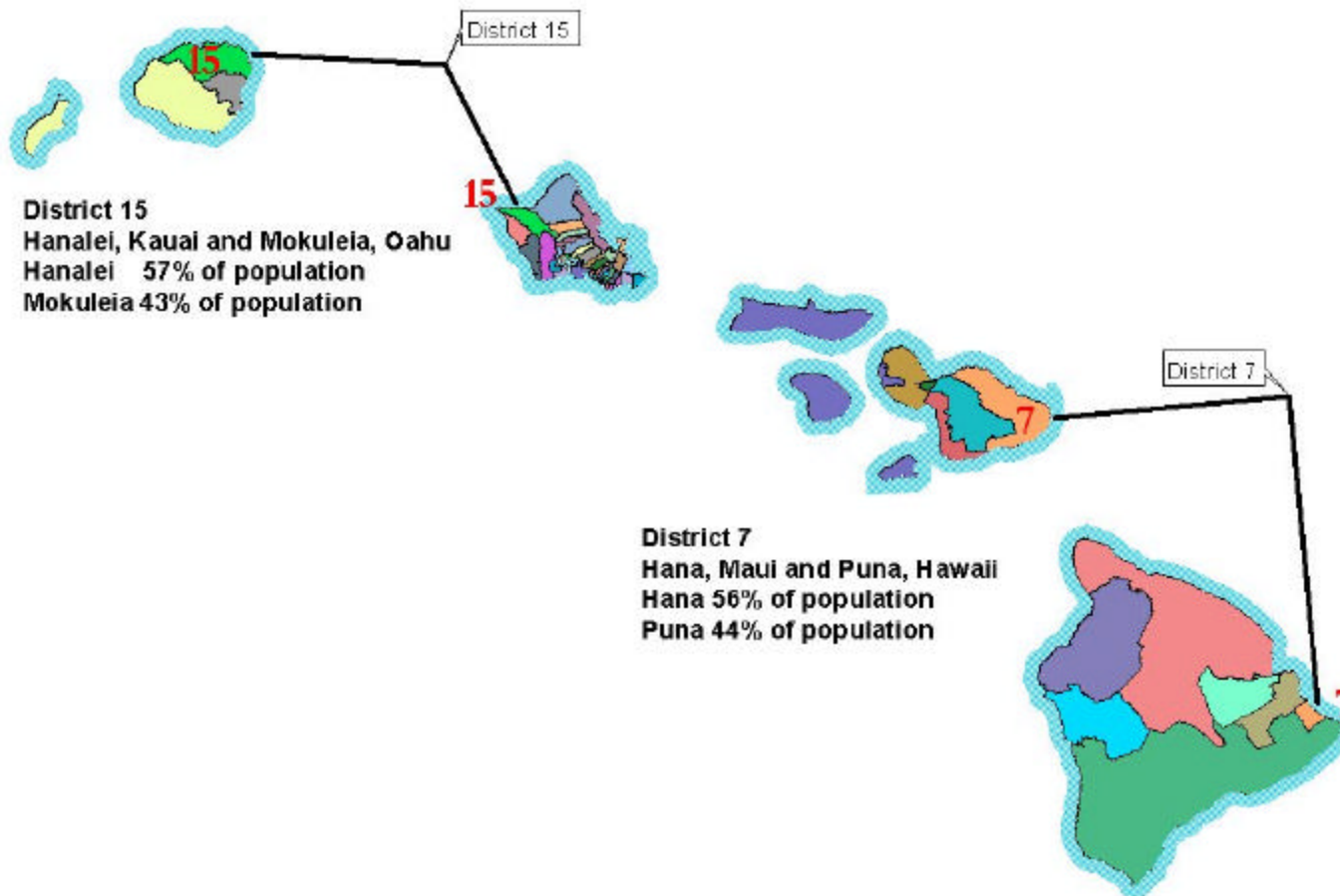
51 House Districts with Two Canoes

2000 PL Data	Districts	Districts	Dev
Target Population	51	51	2%
CCH/Kauai (39+c)	38.91	39	-1%
Hawaii/Maui (11+c)	12.09	12	1%

Best achievable statewide deviation is 2% (less than 10% is presumed constitutional)

R2001: State House Plan

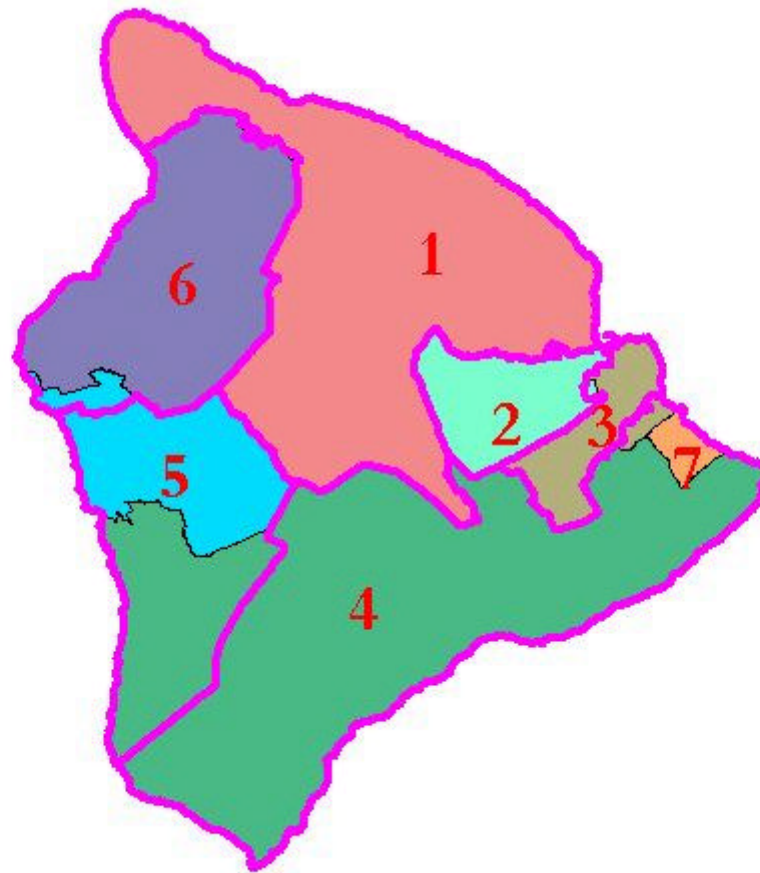
8.0% deviation statewide





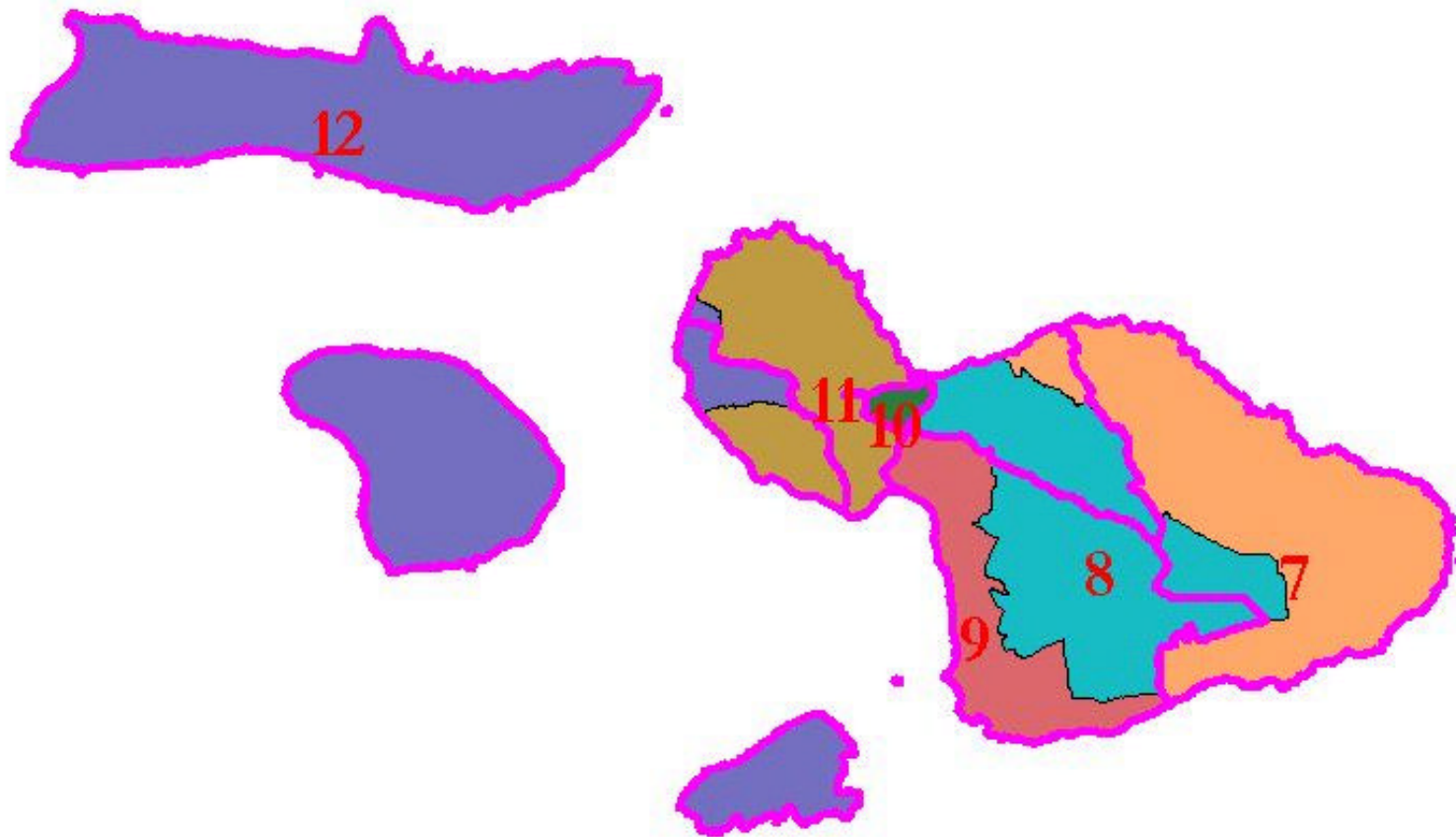
R2001: State House Plan

Hawaii



R2001: State House Plan

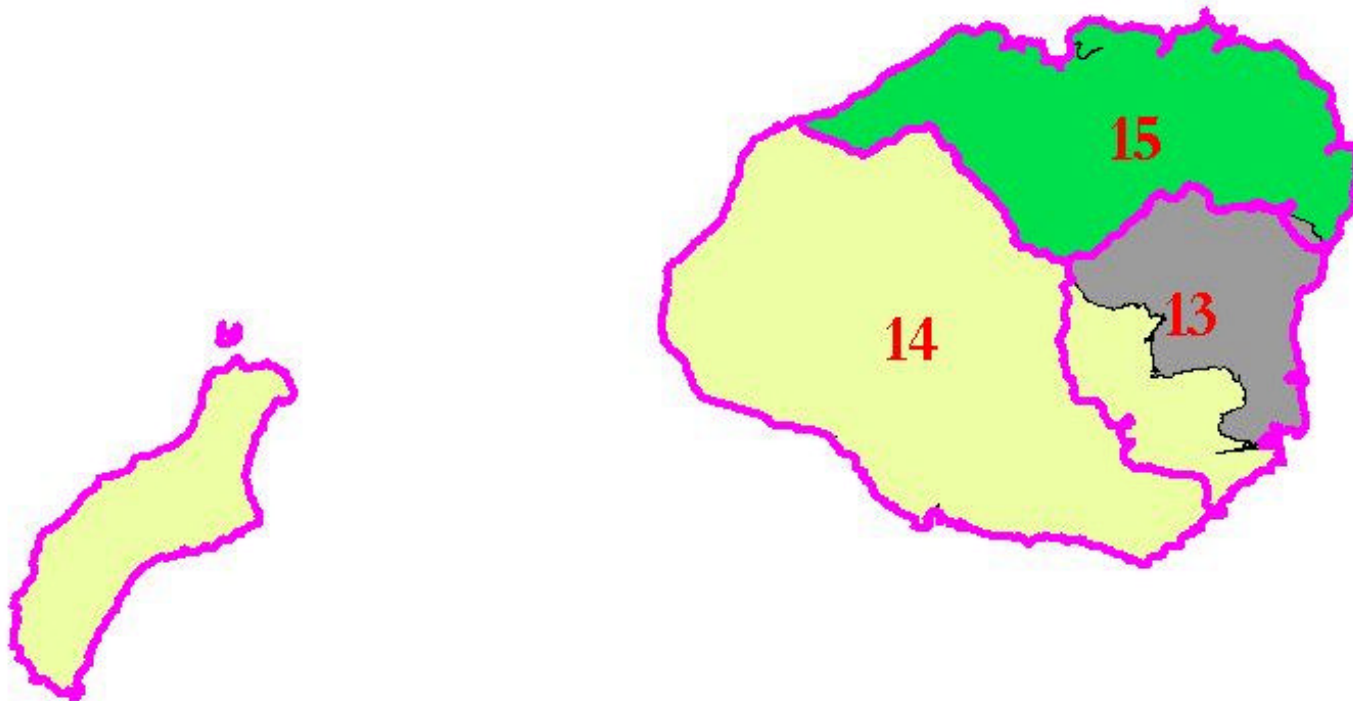
Maui





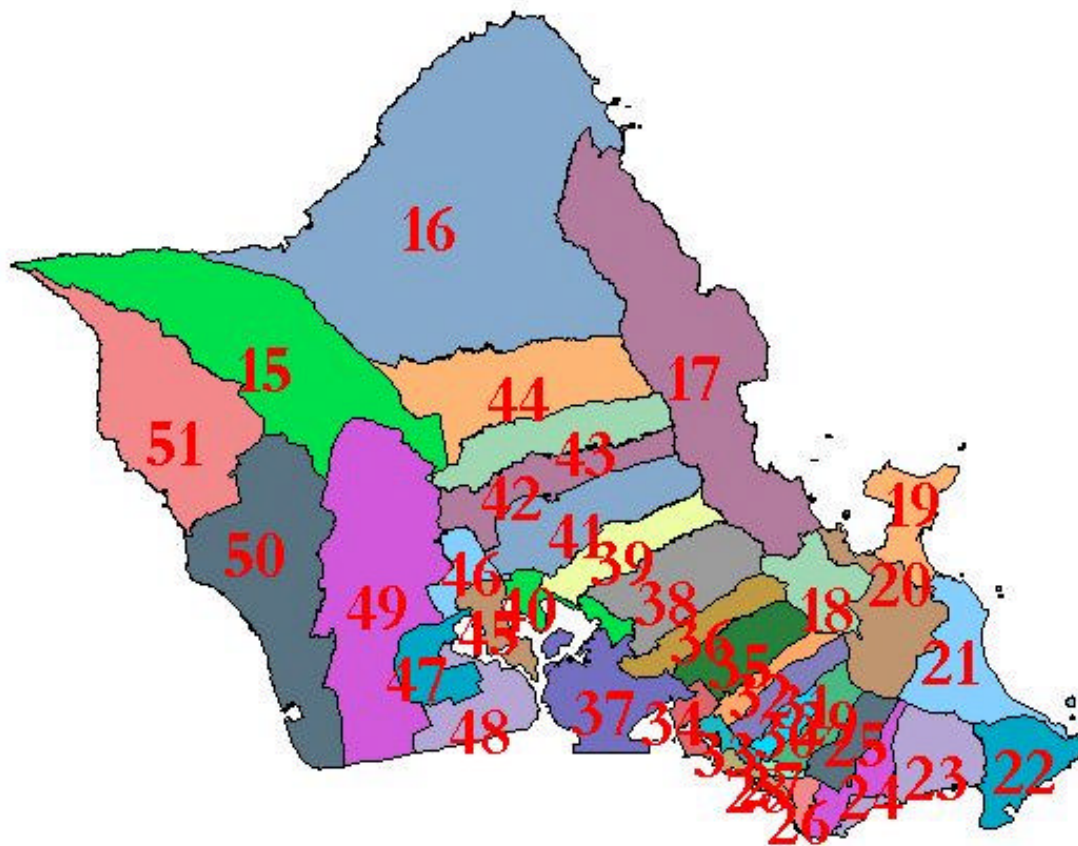
R2001: State House Plan

Kauai



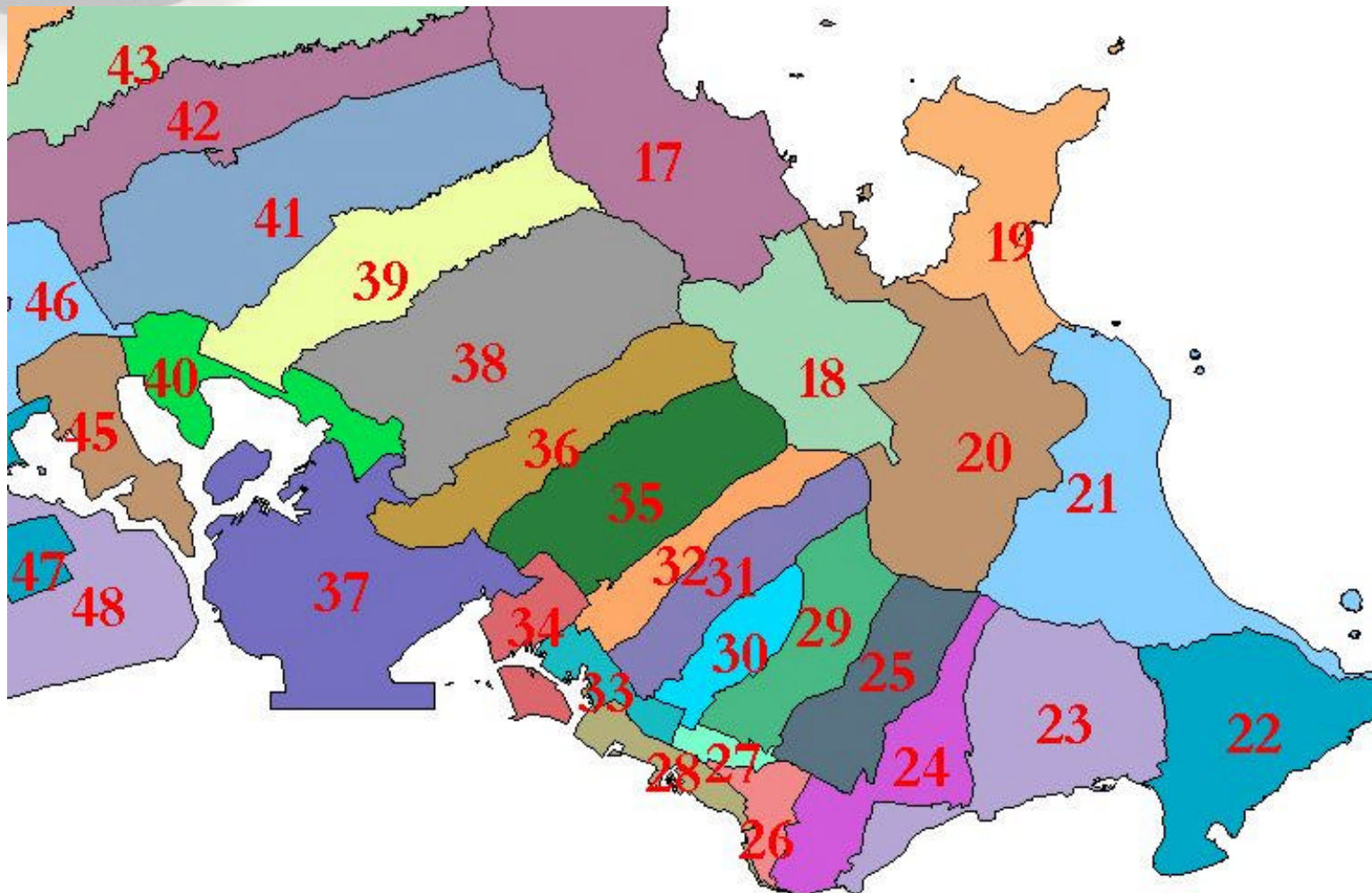
R2001: State House Plan

Oahu



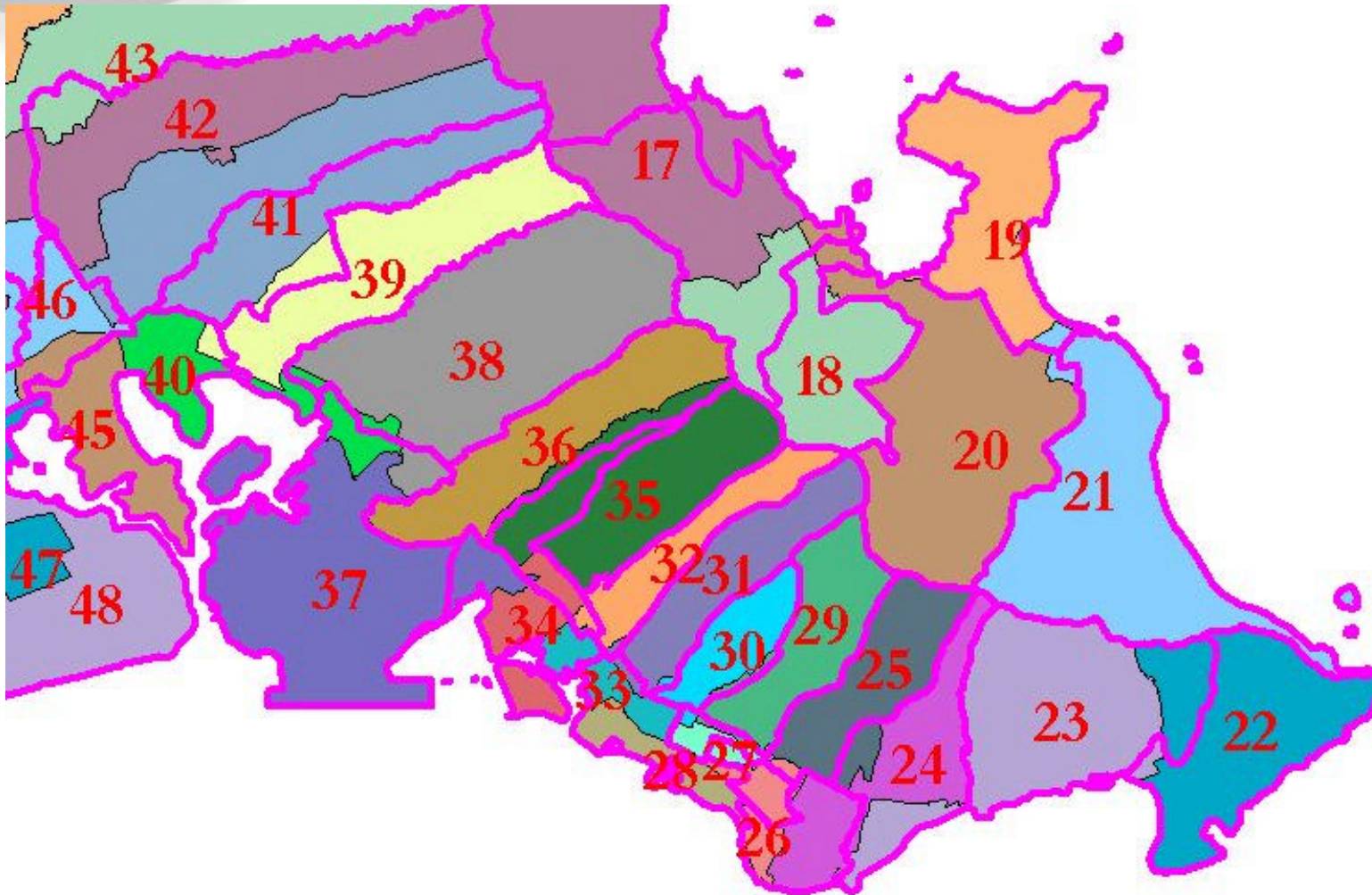
R2001: State House Plan

East Oahu



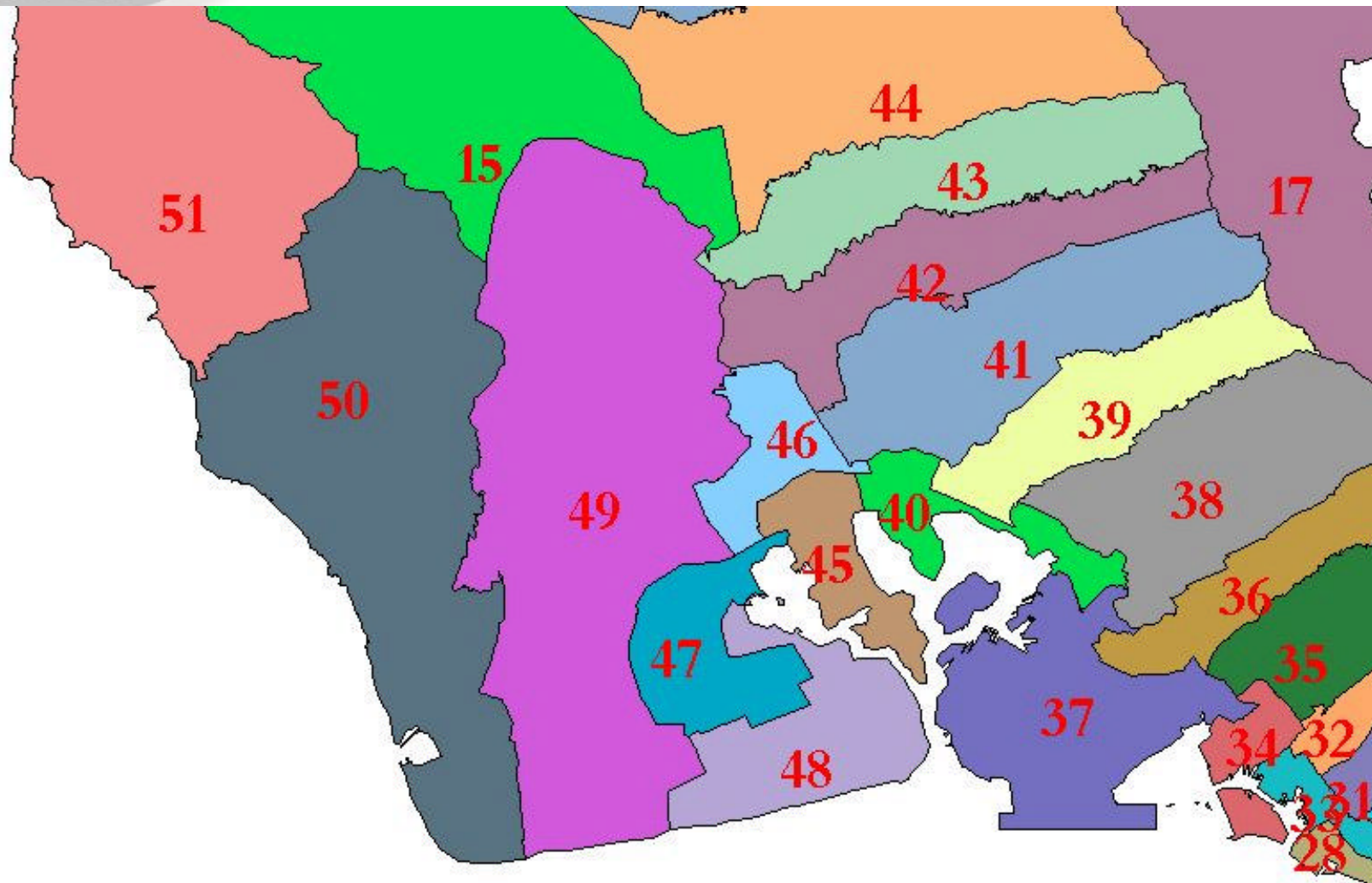
R2001: State House Plan

East Oahu



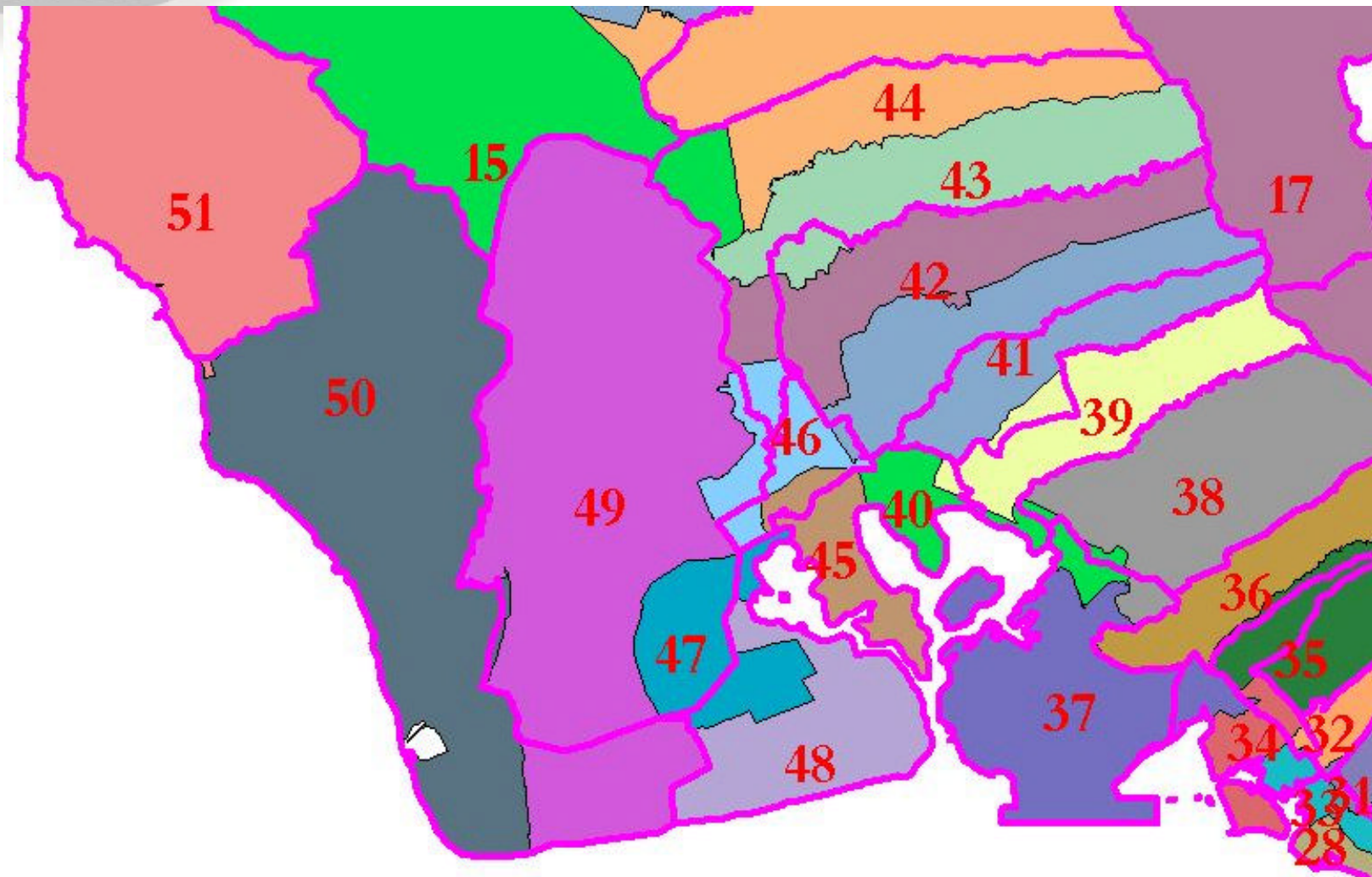
R2001: State House Plan

West Oahu



R2001: State House Plan

West Oahu





R2001: Conclusions

- **Once adopted, copies of the plan maps will be available from all State Public Libraries, County Clerk Offices and the Hawaii Redistricting Website.**
- **Adoption scheduled for Thursday August 2, 2001.**



Proposed Reapportionment and Redistricting Plans in Hawaii

July 31, 2001

- Email: reapportionment@exec.state.hi.us
- Website: www.hawaiiredistricting.org
- Neighbor Island toll free #: 1-866-587-3902

Reapportionment Project

Environmental Systems Research Institute - Consultants